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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	RECORD OF ORAL HEARING
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3	UNITED STATES PATENT AND TRADEMARK OFFICE
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6	BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES
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10	Ex parte SATOSHI HOSHINO
11	Ex parte 5/11051111105111110
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13	Appeal 2009-004475
14	Application 09/899,075
15	Technology Center 3600
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18	Oral Hearing Held: September 9, 2009
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	ore MURRIEL E. CRAWFORD, JOSEPH A. FISCHETTI, and
21BIB	HU R. MOHANTY, Administrative Patent Judges.
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23ON	BEHALF OF THE APPELLANT:
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28 29	2100 Pennsylvania Avenue, N.W.
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33The above-entitled matter came on for hearing on September 9, 2009 at the 34U.S. Patent and Trademark Office, 600 Dulany Street, Alexandria, Virginia, 35before Timothy J. Atkinson, Free State Reporting, Inc.

PROCEEDINGS

- 3 MS. BOBO-ALLEN: Calendar No. 7, Appeal No. 2009-4475, Mr. 4Thomas.
- 5 JUDGE CRAWFORD: Good morning.
- 6 MR. THOMAS: Good morning.
- 7 JUDGE CRAWFORD: You can begin whenever you're ready.
- 8 MR. THOMAS: Okay.
- 9 JUDGE CRAWFORD: At the podium. First time?
- MR. THOMAS: Second time. Won't be the last time.
- JUDGE CRAWFORD: Okay.
- MR. THOMAS: All right. I'm Ebanesar Thomas. I will be 13representing NEC Corporation in this Application No. 09/899,075. Before I 14begin, is there any questions that you want me to --
- JUDGE CRAWFORD: I would like to talk a little bit about your 16claim 1 because I don't -- I mean, it says an authenticity checker for driver's 17license comprising a driver's license image capturing module for image 18capturing a watermark. So is this claim to one watermark or two 19watermarks?
- MR. THOMAS: It is to capture a watermark on -- it could be on other 21the obverse side or the reverse side of it. So it will be a watermark, but it 22could be on either the front side or the back side of it so --
- JUDGE CRAWFORD: Well, then if it's only one watermark, how are 24you comparing the watermark?
- MR. THOMAS: It is just to check if one of the sides has it or not. If 26both of the sides do not have that watermark, then it would have been

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1considered to be a forged driver's license, so if at least one side -- the one of 2the sides has it, and the watermark is a valid watermark, and then it would 3have been a valid driver's license.

- JUDGE CRAWFORD: Okay, I'm still confused, because it says here 5it judges whether the license is authentic if at least one of the watermarks is 6recognized. So I don't know whether you've got one watermark, two 7watermarks. It -- let me ask you this question.
- 8 MR. THOMAS: Yes.
- 9 JUDGE CRAWFORD: When they have the driver's license, is a 10watermark definitely just on one side?
- MR. THOMAS: Yes, it's just not sure if it's on the top or the bottom 12side.
- JUDGE CRAWFORD: Okay. So then to me, I don't think the claim 14makes sense. Go ahead.
- 15 MR. THOMAS: So --
- JUDGE CRAWFORD: See because it -- in that case it says -- it
 17should say judges whether the driver's license is authentic if there is a valid
 18watermark on at least one side rather than saying if at least one of the
 19watermarks is recognized. So I was under the impression that the driver's
 20license might have a watermark on the face and a watermark on the reverse
 21and that your invention was to determine whether at least one of those
 22watermarks was valid.
- MR. THOMAS: It is actually to just see if it's -- the prior art already 24had it on -- the detection system on the prior art had it so that if it was 25entered in there it would just check to see if there is a watermark there, but 26the inventor had analyzed it and noticed that if a light was flashed from the

1top, because there's two type of watermarks. It could be a face watermark or 2the back watermark, and if the light was irradiated from the top and the -- 3captured on the bottom, the watermark in one instance would be clear as if it 4was done the other way around. So then he had determined that, you know, 5there are two types of watermarks that could be on these driver's license, and 6based on that two types of watermark either the --

- JUDGE CRAWFORD: Are you saying that if there is a watermark on 8the obverse side and you checked with transmission you wouldn't get 9anything?
- MR. THOMAS: It would get something. It just wasn't -- wouldn't be 11clear enough for -- to validate -- it could -- the system sometimes had 12provided that it wasn't a valid even though it could have been a valid license. 13So it just wasn't clear enough. Like in the background section it's described. 14So like in the last portion of the background section, it talks about how the 15prior art system might make the driver's license to be false by mistake just 16because it's not clear enough. Doing it from the other side would not have 17produced a clear watermark for you to compare or to validate the license.
- JUDGE CRAWFORD: So I still don't see -- I still don't understand 19the claim. Okay, continue.
- MR. THOMAS: So in the prior art references though cited the 21Koffune reference, it's directed towards -- so like a bill or a paper type thing 22which has a -- with just patterns on the top and then possibly a watermark, 23and the way the Koffune reference validates the bill it's to pretty much the 24problem that the forgeries in these bills were either because the two types of 25counterfeit bills were being made. One is the -- using a copy machine that 26was transparent copy machine, and the other one was the reflective copy

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1machine. So in the Koffune system, they use a reflection light and a detector 2for that and a transmitter light and a detector for that to -- and then whatever 3the result is they get based -- after the bill has passed through, they get the 4pattern signals from the reflector light and then the reflector detector and 5then the transmitter detector and see if they coincide. So basically if 6someone had used a copy machine which was a reflective type one, only 7reflective type one. Then when the detector detects it, it -- the -- both of 8them will coincide.

- So for example, if you'd notice in figure 8D through G, they show 10how in a system where just only one of them had been used the -- for 11example, 8D and 8E, the center output of that bill would be the same that 12would -- as it would be a forged bill, and so here they use the outputs from 13both the detectors and compared the outputs with each other, and if they 14coincide then it will be detected as a forged bill. In the Applicant's 15invention, the determination is to see if one of them has the watermark and if 16the watermark was a regular watermark or a valid watermark. And based on 17that, the judging was performed.
- And the other dependent claims that were provided, for example, 19 claims 5 and 6, they correspond to figure 6, for example, and here we 20 claimed a camera and then a light opposite to the lens of the camera, and a 21 revolving means which revolves the driver's license to -- so one, it will have 22 the obverse side facing so it can take a picture of that, and then it would have 23 a reverse side of it. So just revolving means to throw at it to flip the driver's 24 license, and this element is not event taught in Koffune or the conventional 25 systems.

And similarly, claim 7 which is -- corresponds to figure 7, here the 2Inventor and the Applicants provide a set of optical systems using mirrors 3 and optical elements claimed as the first and the second optical system 4 which propagate the light, for example, if the light from the light is directed 5 from element 225 and it would -- the mirrors would capture that light and 6 transmit that light through the optical systems to the camera and then 7 similarly from the reverse side of it when element 224 sends the light 8 through, and it would be captured on the mirrors 226, 227 and to the camera. 9 So these -- the elements of these two claims, basically claims 5, 6, 7 and 8, 10 are not talked about or even considered in any of the references that have 11 been cited.

12Is there any other questions you might have?

- JUDGE CRAWFORD: I don't have questions. Do you have 14questions, Judge Fischetti?
- JUDGE FISCHETTI: I got -- can you take me through how Koffune 16in figures 8D through G overcomes as you say is not -- does not meet claim 17language of claim 1?
- MR. THOMAS: Okay. So first just to briefly just talk about the 19judging module of claim 1, it's directed towards if neither the detection from 20the obverse side nor the reverse side does not have a regular watermark, then 21it judges it to be a forgery, and then if at least one of the watermarks is 22recognized as a regular watermark, then it would be authentic.

 23But in the way the Koffune reference detects and detects the forgery is, for 24example, in figure 8A there are set of patterns, for example, pattern A and C 25which are just regular prints, and then there's a watermark D that could be 26placed inside the bill. And in a true bill when a pattern is trying to be

1detected, for example, using the reflection lamp which is 8B, the -- you 2could -- the output of it has an element where the pattern A and pattern C 3are, it has produced a little -- like the output is I guess lower level, shows a 4lower level. But it doesn't pick up the watermark D. If it, for example, 5goes -- it still reads it as there's nothing there. And with the -- if a 6transmission light sensor is being used, then it actually detects that 7watermark D, so it actually shows like a lower level showing that there's 8something detected at that area.

9But if it's a forged bill, for example, using something that's -- that is not like 10the copy machine that does the like transmission light type copy machine, 11the whole print would -- will just be like the watermark like pattern A and 12pattern C, and the watermark D would also will have the same type of 13material that corresponds to that. So your output of the reflection light 14would, for example, be 8D, because it will detect that just like there's some 15pattern there, and then you will have a -- when the transmission light goes 16through, then it will still detect that there's still a pattern there. So therefore, 17they both will detect that there's a pattern there even though in a real, true 18bill, the pattern should not be detected, because it only should be detected 19through the reflective light.

20And similarly with the other one also, if the whole thing was done through 21the transmission type thing, then it's the same thing where both of them 22wouldn't detect the forgery. I mean so the signal output will still be the same 23again.

- JUDGE FISCHETTI: So you're saying with the transmission light 25sensor of 8C though, I do get a detection of the watermark?
- MR. THOMAS: Yes, you detect the watermark D, yes.

- JUDGE FISCHETTI: I do get a detection of the watermark?
- 2 MR. THOMAS: Yes, because the -- it is --
- JUDGE FISCHETTI: So why doesn't that answer the claim limitation 4then under 8C in that embodiment using transmission light sensor?
- MR. THOMAS: Because it doesn't check from both the sides of it, 6that the whole portion of the claim, it includes two sets of two limitations 7where it has to check both sides of it, because the capturing module has to 8check to see if there's watermark on both sides of the --
- 9 JUDGE FISCHETTI: All right.
- MR. THOMAS: Okay. Are there any other questions?
- JUDGE CRAWFORD: I don't have any.
- MR. THOMAS: Okay.
- 13 JUDGE CRAWFORD: Thank you.
- (Whereupon, the hearing concluded on September 9, 2009.